

**Notice of Allowability**

Application No.

10/542,282

Examiner

Van T. Trieu

Applicant(s)

OHTAKI ET AL.

Art Unit

2612

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the Preliminary Amendment filed on 14 July 2005.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date 7/14/05
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

## DETAILED ACTION

### EXAMINER'S AMENDMENT

1. The application has been amended as follows:

Claim 11, line 5, change the phrase "the portable" to --- a portable ---.

#### ***Allowable Subject Matter***

2. The following is an examiner's statement of reasons for allowance: there are no prior arts teaching or suggesting of a vehicle security device connected to a vehicle apparatus for communication with a portable device, the security device comprising:

a first communication means for performing a first coded communication to establish a first mutual authentication with the portable device;

an ID code management means connected to the first communication means, having a first code and a second code, and being incommunicable with the portable device, the ID code management means performing a second coded communication for establishing a second mutual authentication with the first communication means using the first code; and

a second communication means for performing a third coded communication to establish mutual authentication with the ID code management means using the second code, the second communication means enabling the operation of the vehicle apparatus when every one of the first, second and third mutual authentications have been established.

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In another embodiment, the security device comprising:

a first electronic control unit having a vehicle code and a first code, for receiving the portable device code from the portable device;

an ID code box connected to the first electronic control unit and having a first code and a second code, for exchanging the first codes with the first electronic control unit;

a second electronic control unit having a second code, for exchanging the second codes with the ID code box, the second electronic control unit enabling the vehicle apparatus to operate when the portable device code matches the vehicle code, the first code of the first electronic control unit matches with the first code of the ID code box, and the second code of the ID code box matches with the second code of the second electronic control unit.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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**Hasegawa et al** discloses a vehicle security system comprising a portable transponder to transmit a first ID code to match with the predetermined code of a vehicle controller to enabling an actuator. The portable transponder transmits a third code in response to a request code from the signal output unit, wherein the third code is compared with a preset fourth code. [US 7,187,266]

**Gilmore** discloses an apparatus and method for a vehicle security system comprising relating to immobilizing and enabling the vehicle fuel system. The security system includes an ECU to receive an ID code from a driver and transmitting to a fuel pump electronic control unit PCU for comparing and determination of enabling/disabling the vehicle fuel system and/or ignition system. [US 6,144,112]


**Denison et al** discloses a vehicle electronic access code device comprising two microprocessors. A first microprocessor in an input device transmits a communication code to a second microprocessor when it received an access code from the input device that matches with the preset access code. The second microprocessor opens the lock when the transmitted communication code is matched with the preset communication code. The second microprocessor can be implement to the vehicle ignition system. [US 7,019,615] and [US 6,977,576] and [US 6,359,547]

**Kito et al** discloses an immobilized system installed in a vehicle for preventing of unauthorized use of the vehicle, comprising a receiver connected to a control circuit to store ID code. A portable operation member stored ID code is received by the receiver for comparing with the code stored in the vehicle to allow operating the vehicle when the codes are matched. [US 6,188,140]

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4. Any inquiry concerning this communication or earlier communications from examiner should be directed to primary examiner **Van Trieu** whose telephone number is (571) 272-2972. The examiner can normally be reached on Mon-Fri from 7:00 AM to 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Mr. Daniel Wu** can be reached on (571) 272-2964.

A handwritten signature in black ink, appearing to read 'Van Trieu', with a long, sweeping horizontal line extending to the right.

**Van Trieu**  
**Primary Examiner**  
**Date: 3/28/07**